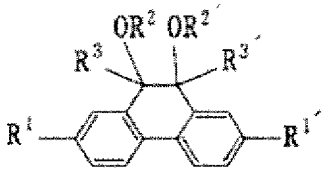
AMENDMENTS IN THE CLAIMS

Claim 1 (original): A dihalide represented by the following formula:

[Formula 1]



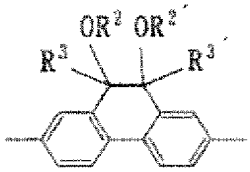
(wherein R^1 and R^2 represent a halogen, R^2 and $R^{2'}$ represent an alkyl group or a silyl group having a substituent, and R^3 and $R^{3'}$ represent a hydrogen or an alkyl group).

Claim 2 (currently amended): ~~A~~ The dihalide group according to claim 1, wherein the silyl group having the substituent is at least one selected from the group consisting of $Si(CH_3)_3$, $Si(n-C_4H_9)_3$, $Si(t-C_4H_9)_3$, $Si(CH_3)_2(C_6H_5)$ and $Si(CH_3)_2(n-C_{18}H_{37})$.

Claim 3 (currently amended): The ~~A~~ dihalide according to claim 1 or 2 wherein the alkyl group is an alkyl group having a carbon number of 1-20.

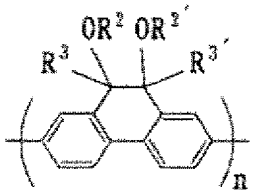
Claim 4 (original): A polymer compound having a structure represented by the following formula in its main chain:

[Formula 2]



(wherein R^2 and $R^{2'}$ represent an alkyl group or a silyl group having a substituent, and R^3 and $R^{3'}$ represent a hydrogen or an alkyl group).

Claim 5 (currently amended): The ~~A~~ polymer compound according to claim 4, which is represented by the following formula:

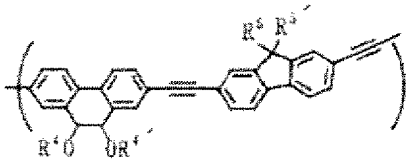


(wherein R^2 and $R^{2'}$ represent an alkyl group or a silyl group having a substituent, and R^3 and $R^{3'}$ represent a hydrogen or an alkyl group, and n represents a polymerization degree and is 5-1000).

Claim 6 (currently amended): The ~~A~~ polymer compound according to claim 4, which is a copolymer comprising the structure represented by the formula claimed in claim 4 and another structure.

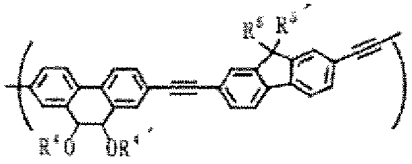
Claim 7 (currently amended): The ~~A~~ polymer compound according to claim 5 wherein the copolymer is at least one selected from the group consisting of the following formulae:

[Formula 4]



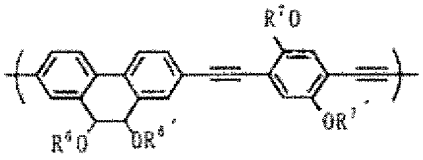
(wherein R^4, $R^{4'}$, R^5 and $R^{5'}$ represent an alkyl group),

[Formula 4]



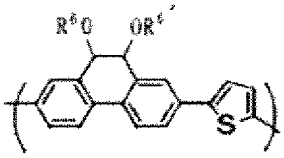
(wherein R^4, $R^{4'}$, R^5 and $R^{5'}$ represent an alkyl group),

[Formula 5]



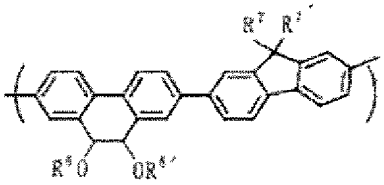
(wherein R^6 and $R^{6'}$ represent an alkyl group or a silyl group having a substituent, and R^7 and $R^{7'}$ represent an alkyl group),

[Formula 6]



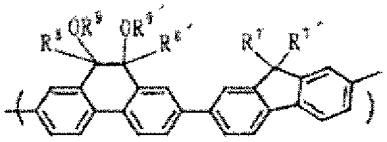
(wherein R^6 and $R^{6'}$ represent an alkyl group or a silyl group having a substituent),

[Formula 7]



(wherein R^6 and $R^{6'}$ represent an alkyl group or a silyl group having a substituent, and R^7 and $R^{7'}$ represent an alkyl group), and

[Formula 8]

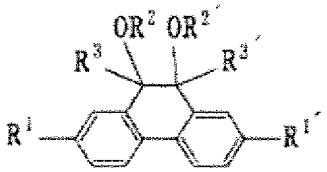


(wherein R^7, $R^{7'}$, R^8, $R^{8'}$, R^9 and $R^{9'}$ represent an alkyl group).

Claim 8 (currently amended): The ~~A~~ polymer according to ~~any one of claims 4-7,~~ claim 4 wherein the alkyl group is an alkyl group having a carbon number of 1-20.

Claim 9 (currently amended): A method for producing a polymer compound, in which a polymer compound as claimed ~~in any of one of claims 4-8~~ in claim 4 is obtained by dehalogenation -polymerizing a dihalide ~~as claimed in claim 1 or 2~~ represented by the following formula:

[Formula 1]



(wherein R^1 and R^2 represent a halogen, R^2 and $R^{2'}$ represent an alkyl group or a silyl group having a substituent, and R^3 and $R^{3'}$ represent a hydrogen or an alkyl group).

Claim 10 (currently amended): ~~A~~ The method for producing a polymer compound according to claim ~~8~~ 9, wherein the dehalogenation-polymerization is performed in the presence of palladium or nickel compound.

Claim 11 (currently amended): A thin film obtained by using polymer compound as claimed ~~in any of one of claims 4-8~~ in claim 4.

Claim 12 (new): The method of claim 9 wherein the silyl group having the substituent is at least one selected from the group consisting of $Si(CH_3)_3$, $Si(n-C_4H_9)_3$, $Si(t-C_4H_9)_3$, $Si(CH_3)_2(C_6H_5)$ and $Si(CH_3)_2(n-C_{18}H_{37})$.

Claim 13 (new): The method for producing a polymer compound according to claim 12, wherein the dehalogenation-polymerization is performed in the presence of palladium or nickel compound.